

MCDR INSPECTION REPORT 2021-22

General

Sl. No.	Particulars	Details
	File No-	CHG/DRG/LST-37/NGP
1	Name of the Mine	Nanini Khundini Limestone Mine
2	Date of Inspection	28.10.2022
3	Name of Inspecting Officer	Prasant Kumar Sahu, Assistant Mining Engineer
4	Name of official accompanying inspection	Shri Mukta Nand Sahu, Representative of Lessee and Dr. Manoj Kumar, Qualified Person
5	Last date of Inspection & Officer	26.06.2019 and Shri S. Kartikeya, Jr. Mining Geologist
6	Total Lease Area (Ha) with breakup of Non-forest and forest land	Forest: Nil Non-Forest: 0.955 Ha. Total Lease Area: 0.955 Ha.
7	Mine Code	38CHG05006
8	IBM Registration Number under rule 45 of MCDR, 1988	IBM/15551/2013
9	Name of the lessee, Address, phone, email and fax number	Shri Bhagat Ram Sahu S/o- Shri Manohar Sahu Village: Nandini Kundini, Tehsil: Dhamdha District: Durg (C.G.) – 490036 Phone: +91 (0) 9300668959 Email – muktanandlimestone8959@gmail.com
10	Village	Nandini Khundini
11	Taluka/Mandal	Dhamdha
12	District	Durg
13	Pin code	490036
14	State	Chhattisgarh
15	Post office	Nandini Nagar
16	Nearest police station	Nandini Nagar
17	Nearest Railway station	Durg
18	Date of Grant of Mining Lease	30/10/1998 to 29/10/2018 (20 years) Supplementary lease agreement for extended period as section 8A of MMDR Amendment Act, 2015 has not been made.
19	Date of Execution	30/10/1998
20	Weekly day of rest	Sunday
21	Date of opening of Mine	30.10.1998
22	Date of first Renewal, if applicable and its period & expiry	Not applicable
23	Date of second Renewal, if applicable and its period & expiry	Not applicable
24	Date of submission of renewal application if Mining Operations are continuing under deemed extension	Not applicable
25	Name of the Nominated Owner with Address, phone, email, fax number and date of appointment	Not appointed
26	Name of the Mine Agent with Address, phone, email, fax number and date of appointment	Not appointed
27	Name of the Mines Manager with Address, phone, email, fax number and date of appointment in mines	Not appointed

28	Name of the Mining Engineer & Geologist, Qualification and total experience with Address, phone, email, fax number and date of appointment in mine	Not appointed
29	Whether Geologist and Mining Engineer appointed in mines satisfy the rule 55 & carrying out their duties as per rule 56 & 57.	Not appointed
30	Date of Approval of Mining Plan/Modified Mining Plan with five-year period and specific condition in approval letter, if any.	Mining Plan approved vide letter no. DRG/LST/MPLN-431/NGP Nagpur dated 16/06/1995 Proposal Period: 1998-1999 to 2002-03 Modified Mining Plan approved vide letter no. DRG/LST/MPLN-431/NGP Nagpur dated 23/03/2016 Proposal Period: 2015-16 to 2018-19 (up to 29/10/2018)
31	Date of Approval of Review of Mining Plan/Modified Review of Mining Plan with five-year period and specific condition in approval letter, if any.	Review of Mining Plan approved vide letter no. DRG/LST/MPLN-1204/2018/RPR Raipur dated 03/05/2019 Proposal Period: 2019-20 to 2022-23
32	Mineral(s) granted in lease and proved for mining	Limestone
33	Method of Mining (Opencast, Underground)	Opencast
34	Category (A/B)	Category-B
35	Captive/Non Captive	Non Captive
36	Present EC Status	2100 Tonnes dated 17.11.2020
37	Status of Financial Assurance	Rs. 5,00,000/- (Rupees Five Lakh) vide BG No.42600IGL0000119 valid up to 12/03/2024

Scientific Mining: Compliance of proposals of approved Mining Plan/Review of Mining Plan.

1.0 Exploration

S.N.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	No exploration proposed during review period.	Not applicable	
1b	Exploration over lease area for Geological axis 1 or 2.	G1	G1-0.955 ha	Entire lease area of 0.955 ha. has been explored under G1 category through one vertical boreholes and quarry development.
1c	Exploration Agency & Expenditure in lakh Rupees during the year	Not specified	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	The entire area has been explored in G1 level.	Not applicable	Entire lease area of 0.955 ha explored under G1 category
1e	Balance reserves as on 01.04.2022	Under (111): 0.072 Million Tonnes Under (221): 0.143 Million Tonnes		
1f	General remarks of inspecting officer on geology, exploration etc.	The entire lease area of 0.955 ha. has been explored under G1 category through one (01) core boreholes at a grid interval of 100 m. X 100 m. with a total meterage of 25 mt. which was drilled in the year 2014-15.		

2.0 Development

S.N.	Item	Proposals	Actual work	Remarks
2a	Location of development w.r.t. lease area	In between coordinates N 2365905 to N 2365955 E 539310 to E 539410	In between coordinates N 2365905 to N 2365955 E 539310 to E 539410	As per proposal. Development was carried out within the proposed grids.
2b	Separate benches in topsoil, overburden and mineral (Rule 13)	Topsoil: NIL OB/SB: NIL Mineral/ore: 03 nos. with 4.0 meters average height	Done as proposed	
2c	Stripping ratio or ore to OB ratio	1:0.00	1:0.00	No generation OB, working restricted with in ore zone
2d	Quantity of topsoil generation in m ³	No proposal	Nil	No topsoil generated during the plan period
2e	Quantity of overburden/waste generation in m ³	No proposal	Nil	No overburden generated during the plan period
2f	General remarks of inspecting officer on development of pit w.r.t. type of deposit etc.	The actual development is less in comparison to proposal for lack of market demand. Mining operation has been carried out in 7.5 mt. safety zone barrier in almost all around the lease. Violation under Rule 11(1) is issued.		

3.0 Exploitation

S.N.	Item	Proposals	Actual work	Remarks
3a	Number of pits proposed for production	1 pit proposed	Actual working was carried out in 1 pit	As per proposal
3b	Quantity of Limestone production proposed	4995 Tonne	500 Tonne	Within the proposal limit and less production due to lack of market demand.
3c	Recovery of salable/usable mineral from ROM production	4745.25 Tonne	500 Tonne	-do-
3d	Quantity of mineral reject generation	249.75 Tonne	Nil	No mineral rejects generated
3e	Grade of mineral reject generation and threshold value declared	No proposal	Nil	
3f	Quantity of sub-grade mineral generation	No proposal	Nil	
3g	Grade of sub-grade mineral generation	No proposal	Nil	
3h	Manual / Mechanized method adopted for segregating from ROM	Mechanized method proposed for sizing of blasted ROM by crushing unit.	Done as proposed	25 mm to 100 mm size of crushed ROM sold to the consuming plant
3i	Any analysis or beneficiation	No beneficiation	No such study	Not required for

	study proposed & carried out for sub-grade mineral and reject	study proposed	carried out	limestone mineral
3j	Provision of drilling & blasting in mineral benches	Provision of drilling & blasting made in mineral benches	Drilling & blasting is carried out in the mineral benches	Drill machine-Jack hammer 32 mm dia, Explosive used-Emulsion cartridge used for blasting
3k	Provision of mining machineries in mineral benches	Manual loading tractor trolley/tipper combination proposed.	Done as proposed	
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	Mineral/ore: 03 nos. with 4.0 meters average height	Average bench height and width maintained	
3m	Total area covered under excavation/pits	0.745 Ha	0.760 Ha	Violation of Rule 11 (1) of MCDR, 2017 is pointed out
3n	Ore to OB ratio for the pit/mine during the year	1:0.00	1:0.00	No generation of waste in the reporting year.
3o	Total area put in use under different heads at the end of year	Pit-0.7475 ha, Infra-0.0319 ha, Undisturbed area-0.1756 ha	Covered under current working: 0.76 ha, Infra-0.044 ha, mineral storage-0.006, Others-0.002 ha	Violation of Rule 11 (1) of MCDR, 2017 is pointed out for exceed the proposals
3p	Production of ROM mineral during last five-year period, as applicable	2017-18: 2043 MT 2018-19: 5265 MT 2019-20: 5130 MT 2020-21: 4995 MT 2021-22: 5130 MT	2017-18: 0.00 MT 2018-19: 0.00 MT 2019-20: 0.00 MT 2020-21: 0.00 MT 2021-22: 500 MT	Actual production is within the proposed quantity. All units in MT.
3q	General remarks of inspecting officer on method of mining etc.	A single quarry has been developed as proposed. Actual production is within the proposal limit and less production due to lack of market demand.		

4.0 Solid Waste Management-Dumping

S. N.	Item	Proposals	Actual work	Remarks
4a	Separate dumping of topsoil, OB & mineral reject	No proposal	Nil	No top soil and OB generated during the year
4b	Location of topsoil, OB & mineral reject dumps	No proposal	Nil	
4c	Number of dumps within lease area and outside lease area	No proposal	Nil	
4d	Location of dumps w.r.t. ultimate pit limit	No proposal	Nil	
4e	Number of active & alive dumps	No proposal	Nil	
4f	Number of dead dumps	No proposal	Nil	

4g	Number of dumps stabilised	No proposal	Nil	
4h	Whether Retaining wall or garland drain all along dumps are there	No proposal	Nil	
4i	Length of Retaining wall or garland drain all along dump	No proposal	Nil	
4j	Number of settling ponds	No proposal	Nil	
4k	Specific comments of inspecting officer on waste dump management.	No top soil and OB generated during the year. No waste dump has been observed during inspection.		

5.0 Solid Waste Management-Backfilling

S.N.	Item	Proposals	Actual work	Remarks
5a	Status on part or full extraction of mineral from mined out area before starting backfilling	No proposal	Nil	Area is not matured for reclamation and rehabilitation.
5b	Area under backfilling of mined out area	No proposal	Nil	
5c	Concurrent use of topsoil for restoration or rehabilitation of mined out area	No proposal	Nil	
5d	Total area fully reclaimed & rehabilitated	No proposal	Nil	
5e	General remarks of inspecting officer on backfilling, reclamation etc.	No proposal for backfilling and reclamation during this year and the area is not matured for backfilling.		

6.0 Progressive Mine Closure Plan

S.N.	Item	Proposals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly - Rule 26(2).	PMCP report to be submitted	PMCP report not submitted as per the proforma	Violation of Rule 26 (2) of MCDR, 2017 is pointed out
6b	Management of worked/mined out benches i) Area available for rehabilitation (ha) ii) Afforestation done (ha) iii) No. of saplings planted during the year iv) Cumulative no. of plants v) Any other specific method of rehabilitation vi) Cost incurred on watch & care during the year	No proposal	Nil	The area is not matured for reclamation and rehabilitation.
6c	Compliance on reclamation and rehabilitation by backfilling i) Voids available for backfilling (L * B * D) ii) Void filled by waste/tailings iii) Afforestation on the backfilled area iv) Rehabilitation by making water reservoir	No proposal	Nil	The area is not matured for backfilling.

	v) Any other specific means			
6d	Compliance of Rehabilitation of waste land within lease i) Afforestation ii) Area rehabilitated (ha) iii) Method of rehabilitation	No proposal	Nil	Area is not matured for reclamation and rehabilitation.
6e	Compliance of Environmental monitoring (core zone & buffer zone)	Environmental monitoring proposed	Environmental monitoring carried out	Done as proposed
6f	General remarks of inspecting officer on PMCP compliance & progressive closure operations	No proposal for backfilling and reclamation during this year and the area is not matured for backfilling.		

7.0 Mineral Conservation

S.N.	Item	Proposals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	Direct ROM dispatch to the consumer	Done as proposed	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical	Not envisaged in the approved document.	Not applicable	Not required for limestone
7c	Different grade of mineral sorted out at mines	No proposal	Not applicable	Not required
7d	Any beneficiation process at mines	No Proposal	Not applicable	Not required
7e	General remarks of inspecting officer on Mineral conservation & beneficiation issues	No beneficiation process proposed within lease area and the total sized material after crushing was dispatched to the consumer.		

8.0 Environment

S.N.	Item	Proposals	Actual work	Remarks
8a	Separate removal and utilization of topsoil	No proposal	Nil	The entire planning has been given in the existing quarry, where topsoil has not been not encountered.
8b	Concurrent use or storage of topsoil	No proposal	Nil	
8c	Separate dumps for overburden, waste rock, rejects and fines	No proposal	Nil	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No proposal	Nil	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No proposal	Nil	
8f	Baseline information on existence of plantation & additional plantation done	20 nos. saplings proposed	60 nos. saplings planted	As per AR 2021-22
8g	Survival rate	Not specified	50 %	As per AR 2021-22
8h	Water sprinkling on roads to control airborne dust	Water sprinkling on haul roads proposed to suppress the dust	Water sprinkling done on haul roads	Done as proposed
8i	General remarks of inspecting	The scale of mining is low therefore no adverse impact due to		

	officer on aesthetic beauty in and around mines area	mining on aesthetic beauty.
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Compliance of Rule 45

S.N.	Item	Comments		Remarks
9a	Status of submission of Monthly and Annual returns	Submitted within times -Yes M.R. Submitted upto – Nov 2022 A.R. submitted upto - 2021-22		AR submitted on 25/05/2022
S.N.	Item	Details Given in AR.	Observation of I/Officer	Remarks
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Mines Manager: Not appointed, Mining Engineer: Not appointed, Geologist: Not appointed	During inspection Mines Manager Mining Engineer and Geologist were not present.	Violation under Rule 55 of MCDR, 2017 is pointed out.
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Pit: 0.095 Ha, Infra & roads: 0.044 Ha, Others-0.008 Ha.	As per Annual Return 2021-22.	
9d	Scrutiny of Annual return on afforestation	WML- 60 saplings @ 50% survival rate	Appears to be correct	
9e	Scrutiny of Annual return on mineral reject generation (Grade & quantity)	Nil	No generation of mineral rejects reported.	
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock- Nil, Production- 500.00 tons, closing stock- Nil	Appears to be correct.	
9g	Scrutiny of Annual return on sale value, Ex. Mine price & production cost	Sale value-12000/- Ex-mine Price Rs. 400/- Cost of production-328/-	Appears to be correct.	
9i	Scrutiny of Annual return on fixed assets	Fixed Asset: Rs. 0.00/-	Report as per Annual Return	
9k	Scrutiny of Annual return on mining machineries	Pumps Elec. 1 No. capacity 400 lt/min		

10- (a) Compliance position of earlier violation pointed out: - Violation of Rule 11(1), 26(2), and 55 have been pointed out. No outstanding violation.

Date-03.03.2023

Prasant Kumar Sahu,
Assistant Mining Engineer